



Industry Spotlight

Aviation & Aerospace

Polk County, Florida



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Development Partnership*

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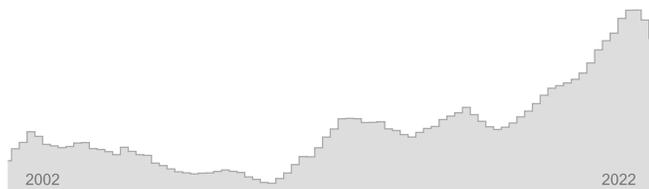
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Spotlight Summary

Aviation & Aerospace
Polk County, Florida – 2022Q4

EMPLOYMENT



455

Regional employment / 1,460,883 in the nation

WAGES

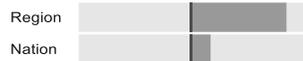


\$56,261

Avg Wages per Worker / \$100,312 in the nation

4.2% ↑

Avg Ann % Change Last 10 Years / +0.9% in the U.S.



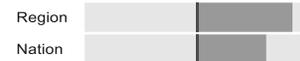
0.2%

% of Total Employment / 0.9% in the U.S.

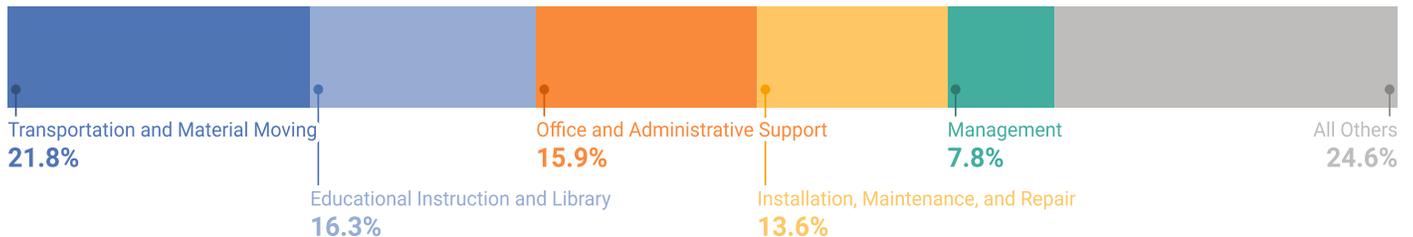


4.0% ↑

Avg Ann % Change Last 10 Years / +2.9% in the U.S.



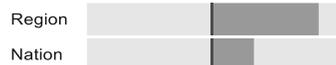
TOP OCCUPATION GROUPS



TOP INDUSTRIES

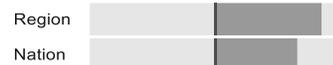
Avg Ann % Change in Employment, Last 10 Years

7.4% ↑



Flight Training

3.5% ↑



Other Support Activities for Air Transportation

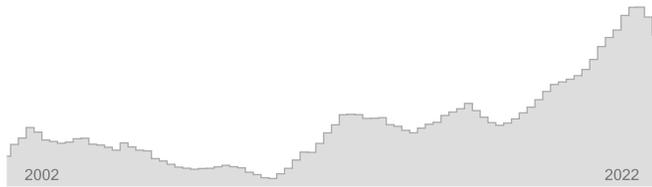
n/a ↑



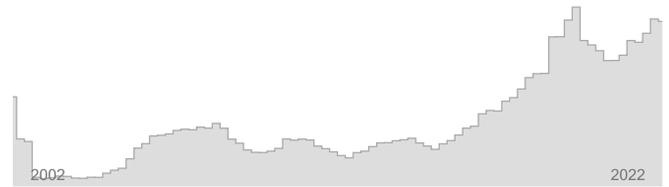
Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing

Industry Snapshot

EMPLOYMENT



WAGES

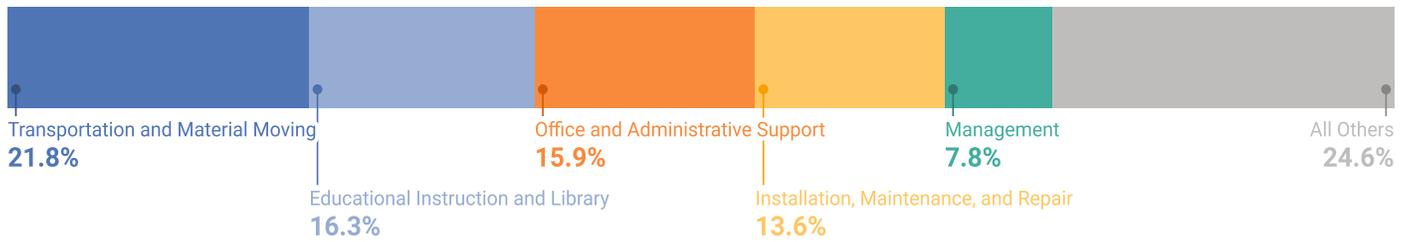


6-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Flight Training	172	\$58,646	4.00		20	2.0%
Other Support Activities for Air Transportation	117	\$43,336	0.53		16	2.5%
Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	52	\$73,578	0.24		6	1.7%
Scheduled Freight Air Transportation	46	\$57,302	1.84		7	2.4%
Nonscheduled Chartered Passenger Air Transportation	22	\$35,962	0.33		3	1.8%
Air Traffic Control	11	\$66,851	0.34		1	2.6%
Aircraft Engine and Engine Parts Manufacturing	9	\$51,416	0.07		1	1.5%
Aircraft Manufacturing	8	\$36,803	0.02		1	1.5%
Other Nonscheduled Air Transportation	8	\$92,262	0.61		1	1.8%
Other Airport Operations	5	\$33,526	0.02		1	2.1%
Remaining Component Industries	5	\$30,725	0.01		0	0.9%
Aviation & Aerospace	455	\$56,261	0.18		57	2.1%

 Employment is one of the broadest and most timely measures of a region's economy. Fluctuations in the number of jobs shed light on the health of an industry. A growing employment base creates more opportunities for regional residents and helps a region grow its population.

 Since wages and salaries generally compose the majority of a household's income, the annual average wages of a region affect its average household income, housing market, quality of life, and other socioeconomic indicators.

Staffing Pattern



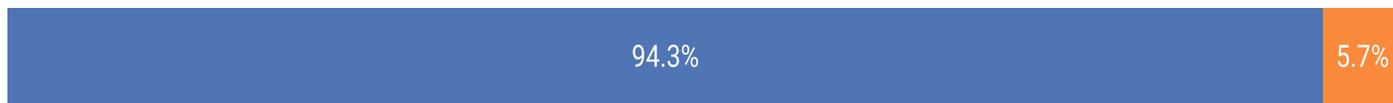
6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Career/Technical Education Teachers, Postsecondary	52	\$63,600	6
Aircraft Mechanics and Service Technicians	42	\$53,800	5
Commercial Pilots	23	\$109,900	4
Flight Attendants	16	\$65,800	3
Laborers and Freight, Stock, and Material Movers, Hand	14	\$36,500	2
Customer Service Representatives	12	\$33,600	2
Reservation and Transportation Ticket Agents and Travel Clerks	11	\$54,600	2
Office Clerks, General	10	\$36,400	1
Airline Pilots, Copilots, and Flight Engineers	10	\$189,400	2
General and Operations Managers	10	\$103,800	1
Remaining Component Occupations	224	\$67,200	30
Total	424		

 The mix of occupations points to the ability of a region to support an industry and its flexibility to adapt to future demand. Industry wages are a component of the cost of labor for regional employers.

Employment Distribution by Type

The table below shows the employment mix by ownership type for Aviation & Aerospace for Polk County, Florida. Four of these ownership types — federal, state, and local government and the private sector — together constitute “Covered Employment” (employment covered by the Unemployment Insurance programs of the United States and reported via the Quarterly Census of Employment and Wages).

“Self-Employment” refers to unincorporated self-employment and represents workers whose primary job is self-employment (that is, these data do not include workers whose primary job is a wage-and-salary position that is supplemented with self-employment).



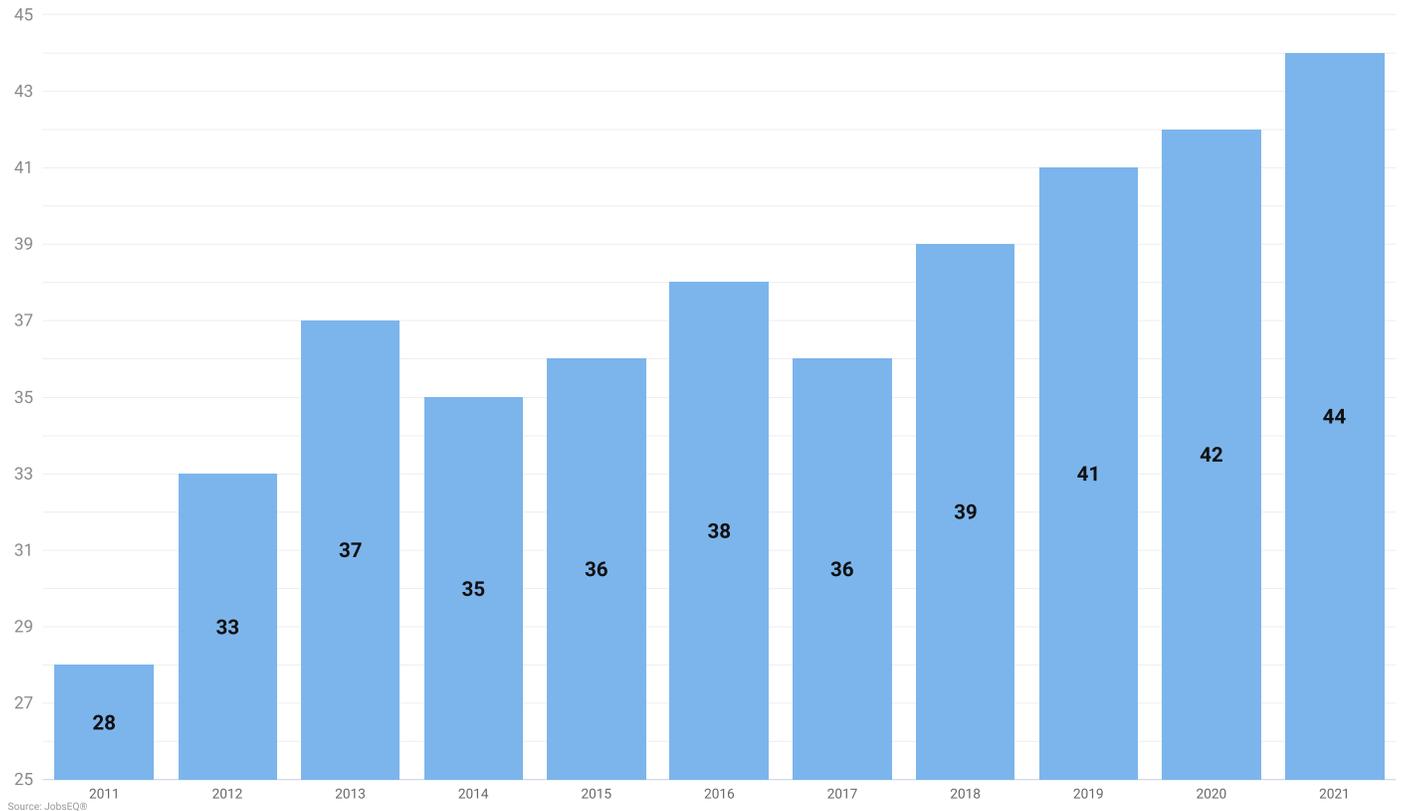
	Empl	%
Private	429	94.3%
Self-Employment	26	5.7%

Source: JobsEQ®

 Strong entrepreneurial activity is indicative of growing industries. Using self-employment as a proxy for entrepreneurs, a higher share of self-employed individuals within a regional industry points to future growth.

Establishments

In 2021, there were 44 Aviation & Aerospace establishments in Polk County, Florida (per covered employment establishment counts), an increase from 28 establishments ten years earlier in 2011.

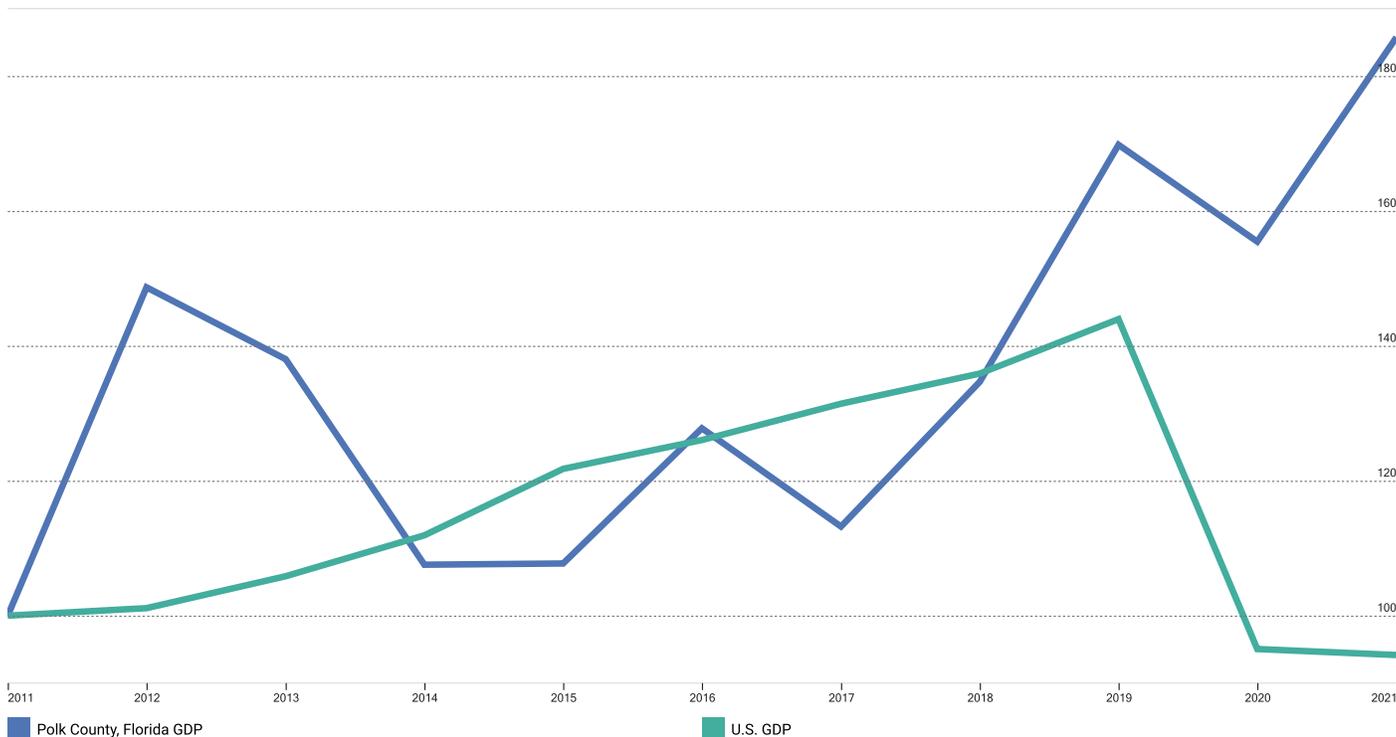


 New business formations are an important source of job creation in a regional economy, spurring innovation and competition, and driving productivity growth. Establishment data can provide an indicator of growth in businesses by counting each single location (such as a factory or a store) where business activity takes place, and with at least one employee.

GDP & Productivity

In 2021, Aviation & Aerospace produced \$40.8 million in GDP for Polk County, Florida.

GDP: Indexed 2011 = 100



0.2 %

Industry Share of Total GDP /
1.0 % in the nation



6.4 % ↑

Avg Ann % Change Last 10 Yrs /
-0.6 % in the nation



\$164k

Output per Worker /
\$399k in the nation



💡 Gross domestic product (GDP) is the most comprehensive measure of regional economic activity, and an industry's contribution to GDP is an important indicator of regional industry strength. It is a measure of total value-added to a regional economy in the form of labor income, proprietor's income, and business profits, among others. GDP values shown on this page are nominal GDP data.

💡 Growth in productivity (output per worker) leads to increases in wealth and higher average standards of living in a region.

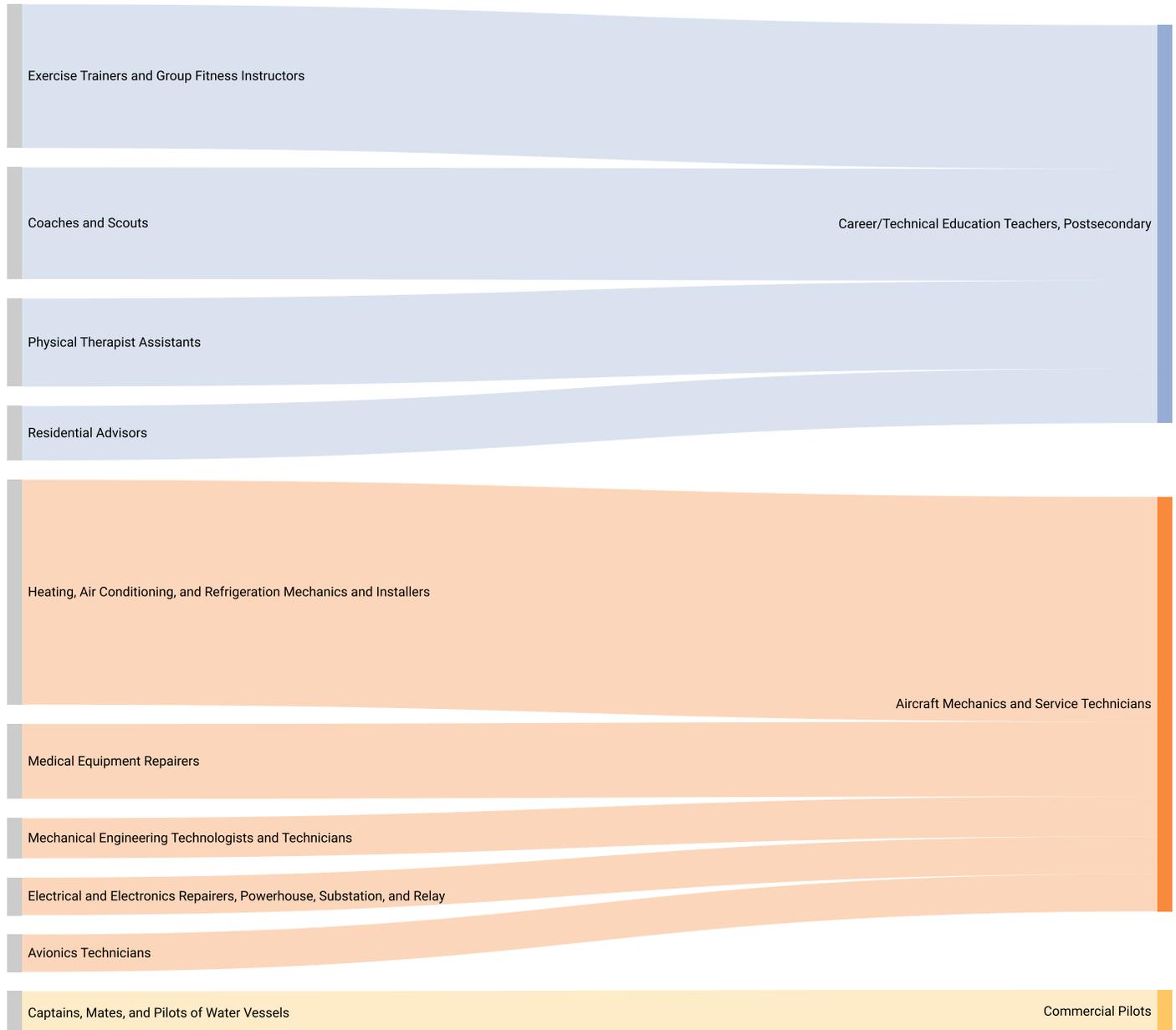
Supply Chain: Top Suppliers

As of 2022Q4, Aviation & Aerospace in Polk County, Florida are estimated to make \$32.3 million in annual purchases from suppliers in the United States with about 49% or \$15.9 million of these purchases being made from businesses located in Polk County, Florida.

6-digit Supplier Industries	Purchases from In-Region (\$000s)	Purchases from Out-of-Region (\$000s)
Couriers and Express Delivery Services	\$1,141.0	\$68.0
Investment Banking and Securities Intermediation	\$377.0	\$767.0
Corporate, Subsidiary, and Regional Managing Offices	\$1,079.0	\$36.0
Petroleum Refineries	<\$0.1	\$1,068.0
Aircraft Engine and Engine Parts Manufacturing	\$161.0	\$875.0
Remaining Supplier Industries	\$13,159.0	\$13,612.0
Total	\$15,917.0	\$16,426.0

 Supplier-buyer networks can indicate local linkages between industries, regional capacity to support growth in an industry, and potential leakage of sales out of the region.

Sector Strategy Pathways



 The graphics on this page illustrate relationships and potential movement (from left to right) between occupations that share similar skill sets. Developing career pathways as a strategy promotes industry employment growth and workforce engagement.

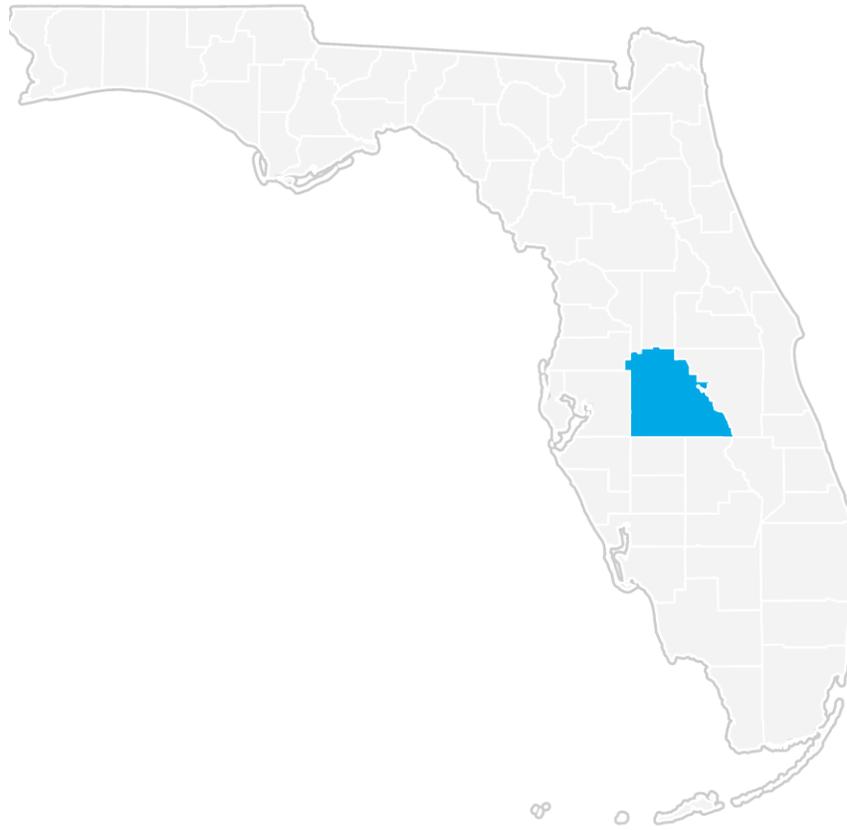
Postsecondary Programs Linked to Aviation & Aerospace

Program	Awards
Florida Southern College	
Curriculum and Instruction	27
Polk State College	
Airframe Mechanics and Aircraft Maintenance Technology/Technician	4
Airline/Commercial/Professional Pilot and Flight Crew	18
Aviation/Airway Management and Operations	9
Education, Other	65
Liberal Arts and Sciences/Liberal Studies	1,333
Registered Nursing/Registered Nurse	248
Southeastern University	
Educational Leadership and Administration, General	65
Traviss Technical College	
Aircraft Powerplant Technology/Technician	16
Airframe Mechanics and Aircraft Maintenance Technology/Technician	21

Source: [JobsEQ®](#)

-  The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.
-  Among postsecondary programs at schools located in Polk County, Florida, the sampling above identifies those most linked to occupations relevant to Aviation & Aerospace. For a complete list see JobsEQ®, <http://www.chmuraecon.com/jobseq>

Polk County, Florida Regional Map



Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2022Q4 and are based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Occupation employment is as of 2022Q4 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data. Wages by occupation are as of 2022, utilizing BLS OEWS data and imputed by Chmura.
- GDP is derived from BEA data and imputations by Chmura. Productivity (output per worker) is calculated by Chmura using industry employment and wages as well as GDP and BLS output data. Supply chain modeling including purchases by industry are developed by Chmura.
- Postsecondary awards are per the NCES and are for the 2020-2021 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

Industry Definition

Aviation & Aerospace is defined as the following NAICS industries:

Code	Description
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
336411	Aircraft Manufacturing
336412	Aircraft Engine and Engine Parts Manufacturing
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing
336414	Guided Missile and Space Vehicle Manufacturing
336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
481111	Scheduled Passenger Air Transportation
481112	Scheduled Freight Air Transportation
481211	Nonscheduled Chartered Passenger Air Transportation
481212	Nonscheduled Chartered Freight Air Transportation
481219	Other Nonscheduled Air Transportation
488111	Air Traffic Control
488119	Other Airport Operations
488190	Other Support Activities for Air Transportation
517410	Satellite Telecommunications
611512	Flight Training

FAQ

What is (LQ) location quotient?

Location quotient is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is annual demand?

Annual demand is a of the sum of the annual projected growth demand and separation demand. Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. Growth demand is the increase or decrease of jobs expected due to expansion or contraction of the overall number of jobs.

What is the difference between industry wages and occupation wages?

Industry wages and occupation wages are estimated via separate data sets, often the time periods being reported do not align, and wages are defined slightly differently in the two systems (for example, certain bonuses are included in the industry wages but not the occupation wages). It is therefore common that estimates of the average industry wages and average occupation wages in a region do not match exactly.